Natural Resource GIS Program



NR-GIS Data Store Training Exercise: Uploading and Deleting Records

GOAL: To become familiar with the NR-GIS Metadata Database and Data Store (Data Store) application, and practice uploading and deleting records.

The Natural Resource and GIS Metadata and Data Store application (NR-GIS Data Store) manages and shares natural resource and GIS metadata and data generated by the Natural Resource and Servicewide GIS Programs of the National Park Service. To facilitate data dissemination to the public and throughout the National Park Service, the NR-GIS Data Store application posts information to the NPS GIS Clearinghouse located in NPSFocus. The NR-GIS Data Store is part of the NPS Metadata System and provides two functions: the NR-GIS Metadata Database and the NR-GIS Data Server. The NR-GIS Metadata Database is a repository of and search engine for metadata describing natural resource and GIS data. The NR-GIS Data Server hosts natural resource and GIS data (documented by the metadata in the NR-GIS Metadata Database) for download.

REQUIRED MATERIALS

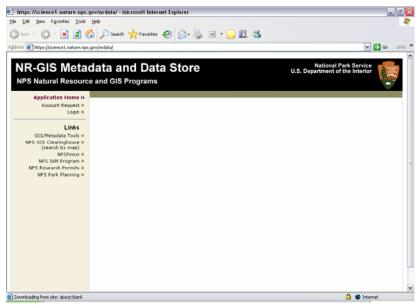
The following materials are needed to complete this exercise.

- 1. Internet Connection and internet browser application such as Internet Explorer, or Netscape Navigator.
- 2. FGDC compliant metadata record in XML format, and optionally its associated data and browse graphic.
- 3. Universal Web Login Account with Author or Editor access to the Data Store and Data Server. https://science.nature.nps.gov/login

EXERCISE STEPS

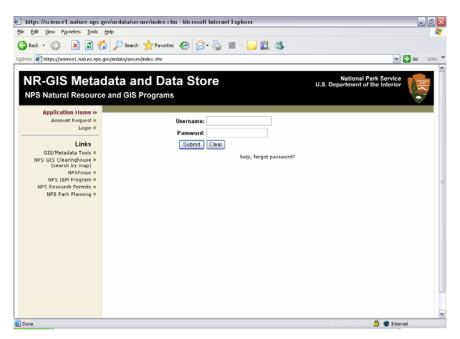
Step 1: Open an internet browser to the secure component of the Data Store

https://science1.nature.nps.gov/nrdata



Step 2: Login to the Data Store

Click the **Login** link in the left panel. Enter your username and password. If you do not have a username and password, click the **Account Request** link in the left panel to request one.



Step 3: Upload Data

This example will use a sample metadata record from Badlands NP that has an associated data file and browse graphic. Note: At this time only records suitable for public consumption are accepted for upload. See Data Store Metadata and Data Uploading Guidance document for further information at http://science.nature.nps.gov/nrdata/docs/metahelp/NR-GISMetadataDataUploadGuidance.pdf

In the left panel, under the **Operations** heading, click **Upload Metadata & Data**. Using the **Browse** buttons, navigate to the location of your metadata record, in XML format. If applicable to the metadata record, navigate to the locations of the data file(s) and browse graphic.

Click Next.



Step 4: Complete the information required to upload the record

The following information is required for each record upon upload. Some elements are not part of the FGDC Metadata Standard, but are provided for in the NPS Profile. The NPS Profile is an extension to the FGDC Standard that allows for storage of NPS specific elements, like Park Code and Theme Categories. For more information and a complete description of the NPS Profile visit the Data Store Help section, also accessible at http://science.nature.nps.gov/nrdata/docs/npsprofile.cfm.

Data Server Target Location

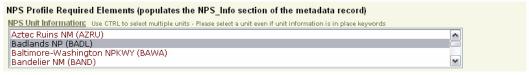
Choose the location on the Data Server where the metadata and associated files will be available. The list will contain only folders to which you have write access. If you wish to create a new sub folder or access an existing one you may type it in the **New Folder** text box to the right of the picklist.

For this exercise create a folder called TRAINING in the folder you are uploading metadata to.



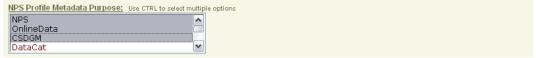
NPS Unit Information

Select from the list the unit that your data relates to. You may select more than one unit if applicable. This information is searchable, so entering the correct information is critical.



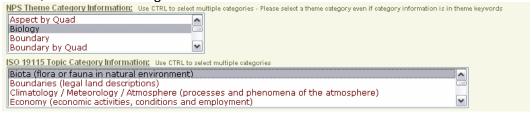
NPS Profile Metadata Purpose

The Metadata Purpose identifies how the metadata should be searched and displayed. For the purpose of this exercise, select NPS, OnlineData and CSDGM. All records uploaded to the Data Store have the NPS Profile elements added, so NPS is a required purpose. NPS is added by default if you forget to select it. If data are uploaded also select OnlineData. Select CSDGM if the metadata conform to FGDC standards. This information controls how the metadata is displayed, so entering the correct information is critical.



• NPS Theme Category Information, ISO 19115 Topic Category Information

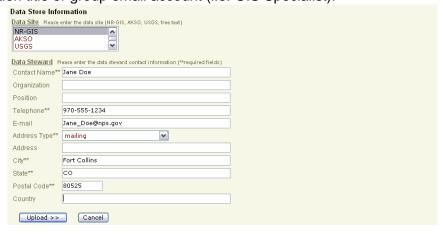
The NPS Theme Category and ISO 19115 Topic Category should be populated with the value or values that are appropriate to the data. The NPS Theme Category is required for searching in the Data Store. The ISO 19115 Topic Category is required for searching in NPS Focus, the NPS Clearinghouse.



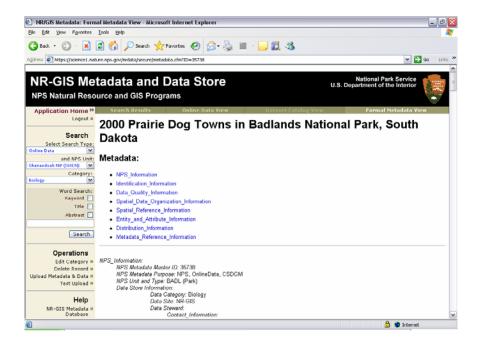
Data Store Information: Data Site and Data Steward

This information is required only when OnlineData is selected as a Metadata Purpose value. The Data Site denotes the physical location of the downloadable data. Data that are uploaded to the Data Store should have NR-GIS as the data site. Data may also reside on another server, either NPS-owned or partner-owned. If this is the case select from the available options as appropriate.

The Data Steward is the person responsible for the metadata and data that are uploaded. The Data Steward will be contacted by Data Store administrators in the event that an issue arises with the metadata or data. This must be a person's name and contact information, not a position title or group email account (i.e. GIS Specialist).



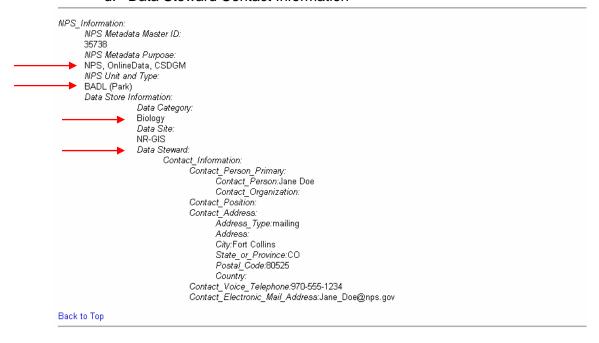
Click **Upload** once all information has been entered. If the upload was successful the record will be displayed for your review.



Step 5: Review the Modifications Made to the Uploaded Record

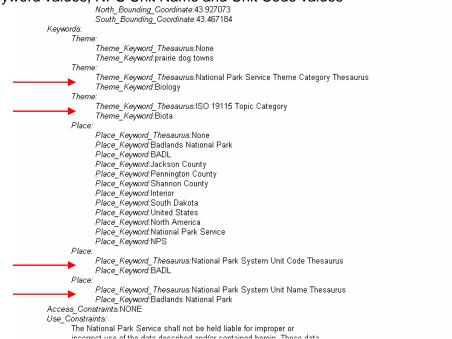
The upload process will modify specific elements in three sections of the Metadata. The NPS Profile information will be added into a section called NPS Information (NPS_Info). Carefully examine each section to verify its accuracy.

- 1. Examine the NPS Information section to verify the accuracy of:
 - a. NPS Metadata Purpose
 - b. NPS Unit and Type BADL (Park)
 - c. Data Category and Data Site
 - d. Data Steward Contact Information



2. Examine the Identification Information section to verify the accuracy of:

 Keywords: Look for the Theme Category and ISO 19115 Topic Category keyword values, NPS Unit Name and Unit Code values



Browse Graphic and Metadata Cross Reference:
 Browse Graphic link should be formatted with http://nrdata.nps.gov/ followed by the folder structure specified on upload, and the filename of the browse graphic.

Cross Reference Citation should contain the Originator, Title, and Publication Date from the Dataset Citation, and an Online Linkage to the metadata file formatted with http://nrdata.nps.gov/ followed by the folder structure specified on upload, and the filename of the metadata file.

```
Contact_Facsimile_I elephone:bU5-433-54U4
Contact_Electronic_Mail_Address:Doug_Albertson@nps.gov

Browse_Graphic_File_Name:http://nrdata.nps.gov/badl/temp/2000pdogs.jpg

Browse_Graphic_File_Description:
Browse_Graphic_File_Type:
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 8.3.0.800

Cross_Reference:
Citation_Information:
Originator:National Park Service, Badlands National Park, Resource Management Division
Publication_Date:20030716
Title:
Metadata for 2000 Prairie Dog Towns in Badlands National Park, South Dakota
Online_Linkage:http://nrdata.nps.gov/badl/temp/2000pdogs.shp.xml

Back to Top
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- 3. Examine the Distribution Information section (if data are uploaded) to verify the accuracy of:
 - a. Network Resource Name: Link to the downloadable data, should be formatted with http://nrdata.nps.gov/ followed by the folder structure specified on upload, and the filename of the data file.

```
to individual use of the data and aggregate use with other data
      Standard Order Process:
            Digital_Form:
                  Format_Name:SHP
                         Format_Version_Number:ArcView 3.2
                         Format_Specification:
                               Shapefile, zipped
                         Format_Information_Content:
                               prairie dog towns
                         Transfer_Size:1.604
                  Digital_Transfer_Option:
                         Online_Option:
                               Computer_Contact_Information:
                                     Network_Address:
                                           Network_Resource_Name:http://www.nps.gov/gis
            Digital_Form:
                  Digital_Transfer_Option:
                         Online_Option:
                               _____Computer_Contact_Information.
                                     Network_Address:
                                           Network_Resource_Name:http://nrdata.nps.gov/badl/temp/2000pdogs.zip
            Fees:None
      Technical_Prerequisites:
            GIS software that can read shapefiles
Back to Top
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Step 6: Search for the Uploaded Record

Using the search interface in the left panel of the Data Store, search for the uploaded record.

Try searching OnlineData and Formal Metadata separately. Try searching with only the unit code, or category. Does the record appear as you expected?

Step 7: Download the Record

To maintain the most current version of the metadata record in your office, it is important to download the metadata record after it has been uploaded. Many elements have been changed or added during the upload process. One critical addition is a unique record identification number called the Master Metadata ID. The presence of this number in the metadata record will prevent the same record from being uploaded again, preventing orphaned data, overwritten metadata, and duplicate records.

After the record has been found in the previous step, find the link to the metadata file (*.xml) in the record, right click on the link and select **Save Target As** from the context menu.

The link to the metadata file can be found in the the Metadata File link in the Online Data View,



or in the Cross Reference citation in the Identification Information section of the Formal Metadata View

```
Cross_Reference:
Citation_Information:
Originator:National Park Service, Badlands National Park, Resource Management Division
Publication_Date:20030716
Title:
Metadata for 2000 Prairie Dog Towns in Badlands National Park, South Dakota
Online_Linkage:http://nrdata.nps.gov/badl/temp/2000pdogs.shp.xml

Back to Top
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Keep an archive copy of the original metadata record used for upload. Use the new record downloaded from the Data Store as your working copy.

CONCLUSION

This exercise reviews the upload process for FGDC compliant metadata records that may exist at your park. The process of answering the questions in step 4 can be time consuming, especially if many records need to be uploaded. Optionally, records can be formatted before uploading with the required information to eliminate extra steps during upload. See the Data Store Metadata Authoring Guidance document for the specific requirements at http://science.nature.nps.gov/nrdata/docs/metahelp/NR-GISMetadataAuthoringGuidance.pdf or the Data Store Creating Metadata step-by-step guidance at http://science.nature.nps.gov/nrdata/docs/metahelp/NR-GISCreatingMetadata.pdf.

REFERENCES

National Park Service Metadata Profile. http://science.nature.nps.gov/nrdata/docs/npsprofile.cfm.

SOFTWARE REFERENCES

NR-GIS Metadata Database and Data Store. http://science.nature.nps.gov/nrdata, https://science1.nature.nps.gov/nrdata.